## BINDER CONTENT OF HOT MIX ASPHALT BY THE IGNITION METHOD ITM 586

## **APPARATUS**

[ ] Ignition Oven				
	[ ] Forced air ignition furnace capable of maintaining a temperature of $1100 \pm 9$ °F			
	[ ] Equipped with an internal balance, thermally isolated from the oven chamber, able to measure up to 6000 g. Documentation of annual calibration in accordance with ITM 910 available			
	[ ] Chamber dimensions adequate to accommodate sample size of 3500 g			
Door locks until completion of test				
<ul> <li>Method for minimizing furnace emissions provided</li> <li>Oven vented into hood or to outside</li> </ul>				
	Oven has fan capable of pulling air through furnace			
	Oven has an automatic shut off that can be set at 0.01% of the sample weight			
	Oven has an alarm to indicate when test is complete			
[ ]	Sample baskets made of heat resistant screen mesh with openings of approximately			
	0.1 in. Multiple baskets may be nested one on top of the other			
[ ]	[ ] Catch pan of sufficient size to hold the sample basket(s)			
PROCEDURE				
[ ]	Lab oven heated to $221 \pm 9^{\circ}F$			
[ ]	Stability threshold of ignition oven set at 0.01 percent mass loss for three minutes. Stability threshold value recorded.			
[ ]	Lift on ignition scale is set as required by manufacturer			
[ ]	Ignition oven preheated to test temperature and temperature recorded			
[ ]	Mix calibration factor in percent at the specified temperature is recorded			
	Sample dried to constant weight in accordance with ITM 572			
LJ	Sample meets the following requirements:			

	Minimum
Mixture Designation	Sample Weight, g
4.75 mm	1200
9.5 mm	1200
12.5 mm	1500
19.0 mm, C19.0 mm	2000
25.0 mm, C25.0 mm	3000
37.5 mm	4000

[ ] If sample size exceeds capacity of ignition oven, sample is reduced in accordance with ITM 587

[ ]	Weigh	nt of ignition oven basket assembly measured using an external balance and recorded
	[]	Bottom basket placed inside catch pan An equal portion of sample placed in each of the ignition oven baskets as they are
	. ,	stacked. Sample spread evenly over bottom of each basket and there is a 1 in. border between the edge of the sample and the side of the basket
	[ ]	Lid and guards are attached to oven basket
	[ ]	Weight of ignition oven basket assembly with sample is measured using an external balance and recorded
	[ ]	Weight of sample determined by:
		Weight(g) = (weight of basket assembly(g) + sample(g)) - weight of basket assembly(g)
	[]	Calibration factor and weight of sample(g) entered into ignition oven computer Ignition oven basket assembly and sample placed in ignition oven
	[ ]	Sample burned in ignition oven until oven shuts off automatically
	[ ]	Basket assembly removed from the oven, placed on firm heat resistant surface,
	[]	covered with protective cage, and allowed to cool to room temperature Oven ticket removed from ignition oven and calibrated binder content recorded to
	[ ]	nearest 0.01%
	NA - 1	Not Applicable
		equires Corrective Action
		ntisfactory
Accep	tance T	echnician
INDO	Т	Date
Comn	nents	